

DOUBLE FLANK WORM GEAR MECHANISM

ABSTRACT

- 5 A worm/worm gear assembly comprises a worm having teeth defined by at least one thread disposed thereon and a worm gear having teeth protruding from a surface thereof. At least one of the worm and the worm gear is fabricated from a resilient material. The teeth of the worm and the teeth of the worm gear are interengaged and in a compressive relationship with each other to maintain double
- 10 flank contact therebetween. At low- or no-load conditions, the double flank contact is made at the opposing outer edges of each of the teeth. At moderate-load conditions, the contact extends from the opposing outer edges of each of the teeth toward the center of each of the teeth. A method for delashing a gear system comprises disposing the worm in mechanical communication with the worm gear and loading the worm
- 15 gear to cause the worm gear to compressively engage the worm.